

Appendix table 5-1. Scientists and engineers in the U.S. labor force, by occupation, sex, and highest degree: 1997

Occupation	All degrees			Bachelor's			Master's			Doctorate		
	Total	Women	Men	Total	Women	Men	Total	Women	Men	Total	Women	Men
Total scientists and engineers...	3,422,200	780,300	2,641,900	1,948,600	406,000	1,542,600	981,900	256,800	725,000	460,900	107,900	352,900
Computer/mathematical scientists...	1,054,000	287,500	766,600	685,800	192,500	493,300	304,600	83,300	221,300	59,900	10,900	49,000
Computer scientists...	946,400	250,500	695,900	660,200	183,300	476,800	256,600	62,900	193,700	26,300	3,700	22,600
Mathematical scientists...	35,300	12,100	23,200	12,200	3,900	8,300	16,100	6,400	9,700	7,100	1,800	5,300
Postsecondary computer/ mathematics teachers...	72,300	24,900	47,400	13,500	5,400	8,200	32,000	14,100	17,900	26,600	5,400	21,200
Life and related scientists...	329,200	119,200	209,900	128,300	53,100	75,200	71,400	30,700	40,700	114,200	31,800	82,400
Agricultural/food scientists...	43,800	11,000	32,800	22,700	6,100	16,600	11,000	3,400	7,600	10,000	1,600	8,400
Biological scientists...	187,100	78,500	108,600	75,300	38,000	37,400	38,400	17,900	20,600	66,100	20,400	45,700
Environmental scientists...	20,200	3,200	17,000	14,600	2,700	11,900	4,200	300	3,800	1,200	200	1,100
Postsecondary life science teachers...	78,100	26,500	51,600	15,600	6,300	9,300	17,900	9,200	8,700	36,900	9,800	27,200
Physical and related scientists...	289,400	63,400	226,000	134,000	35,600	98,400	70,100	16,900	53,200	84,900	10,800	74,100
Chemists...	121,800	32,600	89,200	71,600	22,100	49,500	20,700	6,100	14,600	29,500	4,500	25,000
Earth/geology/oceanographers...	69,800	11,200	58,600	35,600	5,900	29,700	23,400	4,100	19,300	10,700	1,200	9,500
Physicists and astronomers...	31,800	3,100	28,700	7,500	600	6,800	9,100	1,500	7,600	15,200	1,000	14,200
Other physical scientists...	17,400	5,600	11,700	8,700	2,900	5,800	7,100	2,600	4,500	1,400	100	1,300
Postsecondary physical science teachers...	48,600	10,800	37,800	10,700	4,100	6,600	9,800	2,700	7,100	28,100	4,000	24,100
Social and related scientists...	352,400	183,500	169,000	68,800	39,400	29,400	153,000	90,200	62,800	121,500	48,900	72,700
Economists...	45,800	15,600	30,100	16,500	8,100	8,400	21,100	5,700	15,400	7,900	1,600	6,300
Political scientists...	9,300	3,800	5,500	5,100	2,100	2,900	3,300	1,500	1,800	900	200	800
Psychologists...	183,200	115,500	67,800	26,200	17,000	9,200	96,300	67,300	28,900	54,500	27,600	26,900
Sociologists/anthropologists...	16,000	8,800	7,300	7,000	4,200	2,800	5,400	2,700	2,700	3,600	1,800	1,700
Other social scientists...	12,100	7,400	4,700	4,800	2,700	2,100	3,700	2,100	1,600	2,700	1,600	1,100
Postsecondary social science teachers...	85,900	32,300	53,600	9,300	5,200	4,000	23,300	10,800	12,400	51,900	16,000	35,900
Engineers...	1,397,100	126,800	1,270,300	931,700	85,400	846,300	382,700	35,700	347,000	80,300	5,500	74,800
Aerospace engineers...	73,600	5,700	68,000	41,500	3,700	37,800	27,600	1,700	26,000	4,400	300	4,100
Chemical engineers...	77,400	10,600	66,800	49,700	7,600	42,100	20,400	2,500	18,000	7,300	600	6,700
Civil engineers...	210,000	19,600	190,400	153,100	14,900	138,200	52,200	4,500	47,800	4,000	200	3,800
Electrical engineers...	371,100	24,600	346,400	244,000	16,200	227,800	109,100	7,500	101,600	16,900	900	16,100
Industrial engineers...	81,400	8,900	72,400	60,100	6,500	53,600	19,600	2,200	17,400	1,400	200	1,200
Mechanical engineers...	274,500	16,600	257,900	202,300	11,800	190,500	62,900	4,500	58,400	9,100	300	8,800
Other engineers...	274,900	37,600	237,300	175,500	23,900	151,600	81,200	11,800	69,400	17,900	1,700	16,200
Postsecondary engineering teachers...	34,300	3,200	31,100	5,500	800	4,700	9,700	1,100	8,600	19,200	1,400	17,800

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "professional and other degrees" not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-2. Scientists and engineers in the U.S. labor force, by occupation, race/ethnicity, and highest degree: 1997

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Occupation	All degrees						Bachelor's					
	Total	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Total	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native
Total scientists and engineers...	3,422,200	2,832,200	356,900	115,200	106,200	10,000	1,948,600	1,656,100	146,900	74,300	64,000	6,300
Computer/mathematical scientists...	1,054,000	850,500	128,600	45,400	27,000	1,800	685,800	574,600	57,000	33,500	18,800	1,200
Computer scientists...	946,400	762,200	118,000	40,600	24,100	1,500	660,200	553,200	55,400	32,100	18,300	1,200
Mathematical scientists...	35,300	29,100	3,100	1,700	600	100	12,200	9,800	800	700	100	-
Postsecondary computer/ mathematics teachers...	72,300	59,100	7,500	3,100	2,300	200	13,500	11,600	900	700	400	-
Life and related scientists...	329,200	277,600	33,700	8,200	8,400	1,400	128,300	111,500	8,800	3,400	3,600	900
Agricultural/food scientists...	43,800	39,000	2,700	1,100	900	-	22,700	20,500	800	900	500	-
Biological scientists...	187,100	150,100	25,800	5,100	5,000	1,000	75,300	63,000	6,900	2,300	2,400	700
Environmental scientists...	20,200	19,500	100	100	400	200	14,600	14,300	-	-	200	200
Postsecondary life science teachers...	78,100	69,000	5,100	1,900	2,000	100	15,600	13,700	1,100	200	500	-
Physical and related scientists...	289,400	243,400	28,400	8,400	7,900	1,000	134,000	115,800	8,100	5,500	4,100	500
Chemists...	121,800	95,900	16,600	5,600	3,400	100	71,600	59,300	5,900	4,100	2,200	100
Earth/geology/oceanographers...	69,800	63,000	3,600	1,100	1,900	300	35,600	33,000	1,200	600	700	100
Physicists and astronomers...	31,800	27,000	3,700	400	600	100	7,500	6,700	200	200	400	-
Other physical scientists...	17,400	15,900	600	300	400	200	8,700	8,000	100	200	300	200
Postsecondary physical science teachers...	48,600	41,600	3,900	1,200	1,500	300	10,700	8,800	800	400	600	100
Social and related scientists...	352,400	305,600	13,400	16,900	14,500	2,000	68,800	56,300	2,500	4,800	4,200	900
Economists...	45,800	38,700	4,000	1,400	1,600	-	5,100	4,600	100	100	200	-
Political scientists...	9,300	8,400	300	100	500	-	16,500	14,700	600	800	400	-
Psychologists...	183,200	162,000	2,800	9,300	7,900	1,200	26,200	19,800	800	2,600	2,400	600
Sociologists/anthropologists...	16,000	13,800	400	1,000	600	100	7,000	5,800	-	500	600	100
Other social scientists...	12,100	10,500	500	700	300	200	4,800	3,900	300	200	200	200
Postsecondary social science teachers...	85,900	72,200	5,300	4,300	3,500	500	9,300	7,300	800	600	500	100
Engineers...	1,397,100	1,155,100	152,900	36,400	48,600	3,900	931,700	797,900	70,500	27,100	33,200	2,800
Aerospace engineers...	73,600	62,500	6,500	2,300	1,900	500	41,500	35,300	3,000	1,600	1,200	400
Chemical engineers...	77,400	62,600	9,800	1,800	3,200	100	49,700	42,000	3,900	1,500	2,200	100
Civil engineers...	210,000	170,900	25,400	3,900	9,000	600	153,100	129,600	13,600	3,100	6,300	500
Electrical engineers...	371,100	292,900	52,200	10,900	14,000	1,000	244,000	200,300	25,000	8,700	9,300	800
Industrial engineers...	81,400	67,800	6,000	3,800	3,500	400	60,100	51,300	3,200	3,100	2,400	100
Mechanical engineers...	274,500	234,000	26,200	6,100	7,200	900	202,300	179,500	12,400	4,200	5,500	500
Other engineers...	274,900	238,400	21,000	6,400	8,600	500	175,500	155,800	8,500	4,500	6,300	300
Postsecondary engineering teachers...	34,300	26,000	5,800	1,200	1,300	-	5,500	4,100	900	400	100	-

See explanatory information and SOURCE at end of table.

Appendix table 5-2. Scientists and engineers in the U.S. labor force, by occupation, race/ethnicity, and highest degree: 1997

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Occupation	Master's						Doctorate					
	Total	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native	Total	White	Asian/ Pacific Islander	Black	Hispanic	American Indian/ Alaskan Native
Total scientists and engineers...	981,900	780,900	137,900	30,400	30,000	2,300	460,900	368,200	70,300	9,700	11,000	1,400
Computer/mathematical scientists...	304,600	228,600	58,600	10,500	6,400	400	59,900	44,600	12,500	1,100	1,600	200
Computer scientists...	256,600	188,400	55,000	8,000	5,000	200	26,300	18,200	7,100	200	700	100
Mathematical scientists...	16,100	13,600	1,300	900	300	100	7,100	5,700	1,100	100	100	-
Postsecondary computer/ mathematics teachers...	32,000	26,600	2,300	1,600	1,100	100	26,600	20,700	4,300	800	800	100
Life and related scientists...	71,400	60,500	6,800	2,500	1,400	200	114,200	92,700	16,800	1,800	2,600	300
Agricultural/food scientists...	11,000	10,000	600	100	200	-	10,000	8,400	1,300	100	200	-
Biological scientists...	38,400	30,600	5,400	1,600	700	100	66,100	50,400	12,800	1,000	1,700	200
Environmental scientists...	4,200	4,000	-	-	100	-	1,200	1,100	100	-	-	-
Postsecondary life science teachers...	17,900	15,800	800	800	400	100	36,900	32,700	2,700	700	700	-
Physical and related scientists...	70,100	58,100	8,000	1,600	1,900	300	84,900	69,100	12,300	1,400	1,900	200
Chemists...	20,700	14,800	4,200	900	600	100	29,500	21,800	6,400	600	600	-
Earth/geology/oceanographers...	23,400	20,700	1,300	400	1,000	100	10,700	9,200	1,100	100	300	100
Physicists and astronomers...	9,100	7,600	1,300	100	100	100	15,200	12,700	2,200	100	200	-
Other physical scientists...	7,100	6,500	300	100	100	-	1,400	1,200	200	-	-	-
Postsecondary physical science teachers...	9,800	8,500	800	200	200	100	28,100	24,300	2,400	600	800	100
Social and related scientists...	153,000	133,500	4,800	7,700	6,600	400	121,500	107,100	6,000	4,400	3,400	700
Economists...	3,300	2,900	100	-	200	-	900	800	100	-	-	-
Political scientists...	21,100	17,400	2,100	500	1,100	-	7,900	6,200	1,400	100	200	-
Psychologists...	96,300	86,000	1,100	5,000	3,900	300	54,500	50,200	1,000	1,700	1,300	300
Sociologists/anthropologists...	5,400	4,700	300	400	-	-	3,600	3,200	100	100	100	-
Other social scientists...	3,700	3,300	100	200	100	-	2,700	2,300	100	200	-	-
Postsecondary social science teachers...	23,300	19,100	1,200	1,500	1,300	100	51,900	44,300	3,300	2,300	1,700	300
Engineers...	382,700	300,200	59,600	8,200	13,600	1,000	80,300	54,800	22,800	1,100	1,500	100
Aerospace engineers...	27,600	23,800	2,400	600	600	100	4,400	3,200	1,100	-	-	-
Chemical engineers...	20,400	15,600	3,700	300	800	-	7,300	5,000	2,200	-	100	-
Civil engineers...	52,200	38,300	10,400	800	2,600	100	4,000	2,400	1,400	100	100	-
Electrical engineers...	109,100	80,700	21,900	2,100	4,300	200	16,900	11,000	5,400	200	300	-
Industrial engineers...	19,600	15,300	2,300	700	1,000	200	1,400	900	500	-	100	-
Mechanical engineers...	62,900	49,000	10,200	1,800	1,500	300	9,100	5,400	3,500	100	100	-
Other engineers...	81,200	70,000	7,400	1,700	2,000	100	17,900	12,400	5,100	100	300	100
Postsecondary engineering teachers...	9,700	7,400	1,300	200	700	-	19,200	14,400	3,600	600	500	-

See explanatory information and SOURCE at end of table.

Appendix table 5-2. Scientists and engineers in the U.S. labor force, by occupation, race/ethnicity, and highest degree: 1997

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KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "professional and other degrees" and "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2000

Appendix table 5-3. Scientists and engineers in the U.S. labor force, by occupation, race/ethnicity, and sex: 1997

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Occupation	Total		White		Asian/Pacific Islander		Black		Hispanic		American Indian/ Alaskan Native	
	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men	Women	Men
Total scientists and engineers...	780,300	2,641,900	624,000	2,208,200	83,800	273,100	41,700	73,600	27,600	78,600	2,800	7,300
Computer/mathematical scientists...	287,500	766,600	222,800	627,700	37,800	90,700	17,800	27,600	8,200	18,700	600	1,200
Computer scientists...	250,500	695,900	192,600	569,600	35,000	83,000	15,500	25,100	6,900	17,200	500	1,000
Mathematical scientists...	12,100	23,200	10,000	19,100	1,000	2,100	500	1,200	300	300	-	100
Postsecondary computer/ mathematics teachers...	24,900	47,400	20,100	39,000	1,900	5,600	1,800	1,300	1,000	1,300	100	100
Life and related scientists...	119,200	209,900	97,400	180,200	14,500	19,100	3,400	4,800	3,600	4,800	400	1,000
Agricultural/food scientists...	11,000	32,800	10,000	29,000	500	2,100	100	1,000	300	600	-	-
Biological scientists...	78,500	108,600	61,300	88,800	12,400	13,500	2,300	2,800	2,200	2,800	300	700
Environmental scientists...	3,200	17,000	3,100	16,400	-	100	-	100	100	300	-	200
Postsecondary life science teachers...	26,500	51,600	23,000	46,000	1,600	3,500	900	900	900	1,100	-	100
Physical and related scientists...	63,400	226,000	48,500	195,000	8,900	19,500	3,300	5,200	2,400	5,500	200	800
Chemists...	32,600	89,200	22,700	73,200	6,600	10,000	2,000	3,600	1,100	2,300	-	100
Earth/geology/oceanographers...	11,200	58,600	9,700	53,300	400	3,200	600	400	400	1,500	100	200
Physicists and astronomers...	3,100	28,700	2,500	24,500	400	3,300	100	300	-	600	-	100
Other physical scientists...	5,600	11,700	5,100	10,800	100	500	200	-	200	200	-	200
Postsecondary physical science teachers...	10,800	37,800	8,500	33,100	1,300	2,600	300	800	600	900	100	200
Social and related scientists...	183,500	169,000	158,100	147,500	6,100	7,200	9,400	7,500	8,600	5,900	1,200	800
Economists...	15,600	30,100	12,800	25,900	1,600	2,400	400	1,100	1,000	700	-	-
Political scientists...	115,500	67,800	102,100	59,900	2,100	800	5,400	3,900	5,200	2,700	700	400
Psychologists...	8,800	7,300	7,500	6,300	300	200	600	500	300	400	100	-
Sociologists/anthropologists...	3,800	5,500	3,300	5,100	200	200	100	-	300	200	-	-
Other social scientists...	7,400	4,700	6,100	4,400	400	100	500	100	200	-	100	100
Postsecondary social science teachers...	32,300	53,600	26,400	45,900	1,700	3,600	2,400	1,900	1,600	1,900	200	300
Engineers...	126,800	1,270,300	97,200	1,057,800	16,400	136,500	7,800	28,500	4,900	43,600	400	3,500
Aerospace engineers...	5,700	68,000	4,300	58,100	700	5,700	400	1,900	200	1,700	-	500
Chemical engineers...	10,600	66,800	7,800	54,800	1,800	8,000	700	1,100	300	2,800	-	100
Civil engineers...	19,600	190,400	15,100	155,800	2,800	22,700	600	3,300	900	8,100	100	400
Electrical engineers...	24,600	346,400	16,600	276,300	5,300	46,900	1,900	9,000	700	13,300	100	900
Industrial engineers...	8,900	72,400	7,300	60,500	400	5,500	500	3,300	700	2,800	-	400
Mechanical engineers...	16,600	257,900	13,300	220,700	1,700	24,500	1,100	5,000	400	6,700	-	900
Other engineers...	37,600	237,300	30,200	208,200	3,300	17,700	2,400	3,900	1,600	7,000	100	400
Postsecondary engineering teachers...	3,200	31,100	2,600	23,400	400	5,400	100	1,000	100	1,100	-	-

See explanatory information and SOURCE at end of table.

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2000

Appendix table 5-4. Scientists and engineers in the labor force, by occupation, disability status, and highest degree: 1997

Occupation	All degrees		Bachelor's		Master's		Doctorate	
	Persons without disabilities	Persons with disabilities	Persons without disabilities	Persons with disabilities	Persons without disabilities	Persons with disabilities	Persons without disabilities	Persons with disabilities
Total scientists and engineers...	3,231,000	191,200	1,840,300	108,400	929,900	52,000	433,000	27,900
Computer/mathematical scientists...	999,900	54,100	650,500	35,300	290,100	14,500	56,300	3,700
Computer scientists...	898,200	48,300	626,300	33,800	244,100	12,400	24,800	1,400
Mathematical scientists...	33,900	1,400	12,000	200	15,200	900	6,700	400
Postsecondary computer/mathematics teachers...	67,800	4,400	12,200	1,300	30,700	1,200	24,700	1,900
Life and related scientists...	309,700	19,500	121,500	6,700	66,900	4,600	107,800	6,400
Agricultural/food scientists...	40,700	3,100	21,500	1,200	9,700	1,300	9,400	600
Biological scientists...	178,600	8,500	71,400	3,900	37,000	1,400	63,200	2,900
Environmental scientists...	18,500	1,700	13,500	1,100	3,700	400	1,100	100
Postsecondary life science teachers...	71,900	6,200	15,100	400	16,500	1,400	34,100	2,800
Physical and related scientists...	273,500	15,900	127,800	6,200	65,100	5,000	80,300	4,600
Chemists...	115,600	6,200	67,600	4,000	19,700	1,000	28,300	1,200
Earth/geology/oceanographers...	66,900	2,900	34,600	1,000	22,300	1,100	9,900	800
Physicists and astronomers...	30,100	1,700	7,100	300	8,400	700	14,600	700
Other physical scientists...	16,800	600	8,500	300	6,900	200	1,300	100
Postsecondary physical science teachers...	44,100	4,500	10,100	600	7,700	2,100	26,300	1,800
Social and related scientists...	330,600	21,800	65,100	3,700	143,600	9,400	113,200	8,400
Economists...	43,000	2,800	15,100	1,400	20,500	700	7,200	700
Political scientists...	9,200	200	5,100	-	3,200	100	900	-
Psychologists...	172,600	10,600	25,000	1,200	89,800	6,500	51,700	2,800
Sociologists/anthropologists...	15,000	1,000	6,600	400	4,900	500	3,400	200
Other social scientists...	11,400	800	4,300	500	3,700	-	2,400	300
Postsecondary social science teachers...	79,400	6,600	9,000	300	21,500	1,700	47,500	4,400
Engineers...	1,317,200	79,900	875,300	56,400	364,200	18,500	75,400	4,800
Aerospace engineers...	69,100	4,500	38,600	2,900	26,500	1,100	3,900	500
Chemical engineers...	72,700	4,700	46,300	3,400	19,600	900	6,900	400
Civil engineers...	194,500	15,400	141,600	11,500	48,800	3,400	3,600	400
Electrical engineers...	351,400	19,700	231,100	12,900	103,300	5,800	16,100	800
Industrial engineers...	75,900	5,500	55,400	4,700	18,700	800	1,400	-
Mechanical engineers...	262,300	12,200	192,500	9,800	60,700	2,200	8,800	200
Other engineers...	258,900	15,900	164,200	11,300	77,800	3,400	16,700	1,300
Postsecondary engineering teachers...	32,400	1,900	5,500	-	8,900	700	18,000	1,100

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "professional and other degrees" not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-5. Employed scientists and engineers, by sex, race/ethnicity, disability status, and age: 1997

Sex, race/ethnicity, and disability status	Total	Less than 35	35-44	45-54	55 or over
Total...	3,369,300	977,200	1,118,000	832,900	440,900
Sex					
Women...	763,300	269,500	267,800	168,900	57,000
Men...	2,606,000	707,700	850,200	664,000	383,900
Race/ethnicity					
White, non-Hispanic...	2,791,700	766,000	922,000	715,600	387,900
Asian/Pacific Islander...	349,800	128,800	113,500	74,900	32,500
Black, non-Hispanic...	113,000	39,400	41,200	24,000	8,400
Hispanic...	103,500	39,300	37,000	16,700	10,600
American Indian/Alaskan Native...	9,900	3,700	3,000	1,600	1,600
Other...	1,400	-	1,200	100	-
Disability status					
Persons without disabilities...	3,183,300	957,600	1,075,000	758,800	391,700
Persons with disabilities...	186,000	19,600	43,000	74,100	49,200
Percentage distribution:					
Total...	100.0	29.0	33.2	24.7	13.1
Sex					
Women...	100.0	35.3	35.1	22.1	7.5
Men...	100.0	27.2	32.6	25.5	14.7
Race/ethnicity					
White, non-Hispanic...	100.0	27.4	33.0	25.6	13.9
Asian/Pacific Islander...	100.0	36.8	32.5	21.4	9.3
Black, non-Hispanic...	100.0	34.9	36.4	21.3	7.4
Hispanic...	100.0	37.9	35.8	16.1	10.2
American Indian/Alaskan Native...	100.0	37.8	30.5	16.0	15.7
Other...	100.0	3.1	87.6	9.3	-
Disability status					
Persons without disabilities...	100.0	30.1	33.8	23.8	12.3
Persons with disabilities...	100.0	10.6	23.1	39.8	26.5

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Percentages are calculated from unrounded numbers. Details may not add to total because of rounding. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-6. Scientists and engineers with disabilities who are in the labor force, by age at onset of disability: 1997

Age at onset	Number	Percent
Total... ..	191,200	100.0
Since birth... ..	15,200	8.0
Younger than 10... ..	18,100	9.5
10 to 19... ..	29,100	15.2
20 to 29... ..	24,000	12.5
30 to 39... ..	27,800	14.5
40 to 49... ..	50,900	26.6
50 or older... ..	26,100	13.7

NOTE: Figures are rounded to nearest hundred. Percentages are calculated from unrounded numbers. Details may not add to total because of rounding. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2000

Appendix table 5-7. Employment status of scientists and engineers, by age, sex, and race/ethnicity: 1997

Occupation, sex, and race/ethnicity	Total	Employed				Unemployed/ seeking employment	Retired	Not employed/ not seeking employment
		Total	Full-time	Part-time	Postdoctoral appointment			
All ages...	3,898,800	3,369,300	3,081,600	263,500	24,200	52,900	334,300	142,300
Women...	898,400	763,300	628,000	126,700	8,600	17,000	30,400	87,600
Men...	3,000,500	2,606,000	2,453,600	136,800	15,600	35,900	303,900	54,700
White...	3,260,000	2,791,700	2,546,100	229,700	16,000	40,500	312,400	115,400
Asian/Pacific Islander...	384,700	349,800	325,600	17,400	6,800	7,100	12,100	15,700
Black...	126,600	113,000	104,900	7,500	600	2,200	5,100	6,200
Hispanic...	114,900	103,500	94,500	8,200	800	2,700	4,300	4,300
American Indian/Alaskan Native...	10,600	9,900	9,100	700	100	100	300	300
Younger than 35...	1,049,700	977,200	883,400	81,000	12,800	12,900	900	58,700
Women...	307,000	269,500	225,700	39,000	4,800	5,300	900	31,300
Men...	742,700	707,700	657,700	42,000	8,000	7,600	-	27,300
White...	816,900	766,000	692,800	64,500	8,700	8,100	900	41,900
Asian/Pacific Islander...	140,700	128,800	115,600	9,700	3,500	2,600	-	9,400
Black...	44,400	39,400	36,600	2,600	200	800	-	4,200
Hispanic...	43,600	39,300	35,000	3,900	400	1,300	-	3,000
American Indian/Alaskan Native...	3,900	3,700	3,400	300	-	-	-	200
35 to 44...	1,175,400	1,118,000	1,047,800	60,800	9,400	11,800	2,200	43,300
Women...	313,100	267,800	220,100	44,500	3,200	6,900	1,900	36,500
Men...	862,200	850,200	827,800	16,200	6,200	4,900	300	6,800
White...	970,900	922,000	863,800	52,600	5,700	9,100	2,000	37,700
Asian/Pacific Islander...	118,600	113,500	106,100	4,400	3,000	1,900	-	3,200
Black...	43,100	41,200	39,500	1,300	300	400	200	1,300
Hispanic...	38,500	37,000	34,500	2,200	300	400	-	1,000
American Indian/Alaskan Native...	3,200	3,000	2,800	200	-	100	-	100
45 to 54...	872,200	832,900	786,300	45,300	1,300	11,300	4,800	23,200
Women...	186,100	168,900	141,600	26,800	500	3,200	1,400	12,600
Men...	686,000	664,000	644,700	18,400	900	8,100	3,400	10,600
White...	749,600	715,600	673,500	41,200	900	9,000	4,300	20,600
Asian/Pacific Islander...	78,000	74,900	73,400	1,100	300	1,000	200	2,000
Black...	24,700	24,000	21,900	2,100	100	400	200	-
Hispanic...	17,600	16,700	15,800	800	100	600	100	200
American Indian/Alaskan Native...	1,600	1,600	1,500	100	-	-	-	-
55 or older...	801,300	440,900	363,700	76,400	800	16,900	326,400	17,100
Women...	92,000	57,000	40,500	16,400	200	1,500	26,200	7,200
Men...	709,300	383,900	323,200	60,100	600	15,400	300,200	9,900
White...	722,500	387,900	315,900	71,400	700	14,300	305,200	15,200
Asian/Pacific Islander...	47,200	32,500	30,300	2,200	100	1,600	11,900	1,200
Black...	14,400	8,400	7,000	1,400	-	600	4,800	700
Hispanic...	15,200	10,600	9,200	1,400	-	400	4,200	100
American Indian/Alaskan Native...	1,900	1,600	1,400	100	-	100	300	-

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-8. Employment status of scientists and engineers, by occupation, sex, and race/ethnicity: 1997

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Occupation, sex, and race/ethnicity	Total	Employed				Unemployed/ seeking employment	Retired	Not employed/ not seeking employment
		Total	Full-time	Part-time	Postdoctoral appointment			
Scientists and engineers total.....	3,898,800	3,369,300	3,081,600	263,500	24,200	52,900	334,300	142,300
Women.....	898,400	763,300	628,000	126,700	8,600	17,000	30,400	87,600
White, non-Hispanic.....	725,500	611,300	494,200	111,500	5,600	12,700	27,300	74,200
Asian/Pacific Islander.....	91,400	81,500	72,600	6,600	2,400	2,300	1,300	6,400
Black, non-Hispanic.....	47,100	40,700	36,600	3,800	200	1,000	1,300	4,200
Hispanic.....	30,600	26,800	22,000	4,400	300	900	600	2,300
American Indian/Alaskan Native.....	2,900	2,800	2,400	300	-	-	-	100
Men.....	3,000,500	2,606,000	2,453,600	136,800	15,600	35,900	303,900	54,700
White, non-Hispanic.....	2,534,500	2,180,400	2,051,900	118,100	10,300	27,800	285,200	41,200
Asian/Pacific Islander.....	293,300	268,300	253,000	10,800	4,400	4,800	10,800	9,300
Black, non-Hispanic.....	79,400	72,300	68,200	3,700	400	1,300	3,900	2,000
Hispanic.....	84,300	76,700	72,500	3,800	500	1,900	3,700	2,000
American Indian/Alaskan Native.....	7,700	7,100	6,700	400	-	100	300	200
Computer and mathematical scientists								
Women.....	320,500	280,900	246,700	34,000	200	6,600	8,700	24,300
White, non-Hispanic.....	251,800	217,800	187,100	30,500	200	5,000	7,700	21,200
Asian/Pacific Islander.....	39,800	37,100	35,300	1,800	-	700	300	1,700
Black, non-Hispanic.....	19,100	17,600	16,600	1,000	-	200	500	800
Hispanic.....	8,900	7,700	7,100	600	-	500	200	600
American Indian/Alaskan Native.....	700	600	600	100	-	-	-	100
Men.....	809,200	758,600	726,900	31,100	600	8,000	31,300	11,400
White, non-Hispanic.....	665,300	621,600	594,900	26,300	400	6,100	29,100	8,600
Asian/Pacific Islander.....	93,800	89,400	86,400	2,800	200	1,300	1,400	1,700
Black, non-Hispanic.....	28,900	27,300	26,300	900	-	300	500	800
Hispanic.....	19,200	18,400	17,400	1,000	-	300	200	300
American Indian/Alaskan Native.....	1,200	1,200	1,200	-	-	-	100	-
Life and related scientists								
Women.....	144,500	115,900	94,800	15,000	6,100	3,300	6,200	19,100
White, non-Hispanic.....	117,200	95,200	78,600	12,900	3,800	2,100	5,000	14,900
Asian/Pacific Islander.....	16,800	13,800	10,500	1,300	2,000	700	400	1,800
Black, non-Hispanic.....	5,600	3,000	2,600	300	100	400	700	1,600
Hispanic.....	4,500	3,500	2,700	600	200	100	100	800
American Indian/Alaskan Native.....	400	400	400	-	-	-	-	-
Men.....	242,700	205,900	183,600	13,600	8,700	4,100	20,500	12,300
White, non-Hispanic.....	206,800	177,200	159,300	12,300	5,600	3,100	17,900	8,600
Asian/Pacific Islander.....	22,900	18,500	15,000	900	2,600	600	1,000	2,800
Black, non-Hispanic.....	5,800	4,800	4,300	200	200	-	800	100
Hispanic.....	6,300	4,500	4,100	100	200	300	700	800
American Indian/Alaskan Native.....	1,100	1,000	900	100	-	-	-	100

See explanatory information and SOURCE at end of table

Appendix table 5-8. Employment status of scientists and engineers, by occupation, sex, and race/ethnicity: 1997

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Occupation, sex, and race/ethnicity	Total	Employed				Unemployed/ seeking employment	Retired	Not employed/ not seeking employment
		Total	Full-time	Part-time	Postdoctoral appointment			
Physical and related scientists								
Women.....	79,100	61,800	52,300	8,800	700	1,600	5,600	10,200
White, non-Hispanic.....	62,400	47,300	39,500	7,400	400	1,100	5,200	8,700
Asian/Pacific Islander.....	9,900	8,700	7,600	900	300	200	200	800
Black, non-Hispanic.....	3,600	3,300	3,200	100	-	-	-	300
Hispanic.....	2,800	2,100	1,700	300	-	300	200	300
American Indian/Alaskan Native.....	200	200	100	100	-	-	-	-
Men.....	264,400	223,100	203,100	16,500	3,600	3,000	31,400	7,000
White, non-Hispanic.....	229,700	192,900	176,000	14,300	2,600	2,100	29,600	5,100
Asian/Pacific Islander.....	21,500	19,200	17,000	1,300	800	300	700	1,300
Black, non-Hispanic.....	6,300	5,100	4,700	400	-	100	800	400
Hispanic.....	6,000	5,200	4,700	300	100	400	300	200
American Indian/Alaskan Native.....	800	800	700	100	-	100	-	-
Social and related scientists								
Women.....	210,600	181,100	122,700	57,000	1,300	2,400	7,300	19,900
White, non-Hispanic.....	181,900	156,200	104,500	50,600	1,100	2,000	6,900	16,800
Asian/Pacific Islander.....	7,400	6,100	4,600	1,500	100	-	200	1,100
Black, non-Hispanic.....	10,800	9,100	6,900	2,100	100	300	-	1,400
Hispanic.....	9,000	8,500	5,800	2,600	100	-	200	200
American Indian/Alaskan Native.....	1,200	1,200	1,000	200	-	-	-	-
Men.....	190,300	167,900	139,500	27,300	1,100	1,100	15,100	6,300
White, non-Hispanic.....	166,900	146,500	122,100	23,500	900	1,000	14,100	5,300
Asian/Pacific Islander.....	8,300	7,200	5,900	1,200	100	-	300	700
Black, non-Hispanic.....	8,200	7,500	6,200	1,200	-	-	600	100
Hispanic.....	6,100	5,900	4,500	1,200	100	-	100	100
American Indian/Alaskan Native.....	900	800	700	100	-	-	-	-
Engineers								
Women.....	143,600	123,700	111,400	12,000	300	3,100	2,600	14,100
White, non-Hispanic.....	112,300	94,800	84,500	10,100	200	2,400	2,400	12,600
Asian/Pacific Islander.....	17,500	15,800	14,600	1,200	-	600	200	900
Black, non-Hispanic.....	8,000	7,800	7,400	400	-	100	-	200
Hispanic.....	5,400	4,900	4,600	300	-	-	-	500
American Indian/Alaskan Native.....	400	400	400	-	-	-	-	-
Men.....	1,493,800	1,250,500	1,200,600	48,300	1,600	19,800	205,700	17,700
White, non-Hispanic.....	1,265,800	1,042,300	999,700	41,800	900	15,500	194,400	13,600
Asian/Pacific Islander.....	146,900	133,900	128,700	4,500	700	2,600	7,400	2,900
Black, non-Hispanic.....	30,300	27,700	26,700	900	-	900	1,200	500
Hispanic.....	46,700	42,800	41,600	1,100	-	800	2,500	600
American Indian/Alaskan Native.....	3,700	3,400	3,400	100	-	100	200	-

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-9. Scientists and engineers who are unemployed or out of the labor force, by reason for not working, sex, race/ethnicity, and disability status: 1997

Reason for not working	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	Indian/Alaskan Native	Persons without disabilities	Persons with disabilities
Total ¹	529,600	135,100	394,500	468,300	34,900	13,600	11,400	700	437,500	92,000
Family responsibilities.....	59,200	51,900	7,300	51,700	4,000	1,000	2,100	-	56,100	3,100
Chronic illness or permanent disability.....	27,800	8,200	19,600	24,300	1,800	1,300	400	-	10,200	17,600
Suitable job not available.....	26,000	9,400	16,700	19,900	3,400	1,100	1,300	100	22,700	3,300
Did not need or want to work.....	76,400	41,000	35,400	65,100	6,700	3,100	1,500	100	70,900	5,500
Other reason.....	17,000	5,900	11,100	13,700	2,100	400	600	100	15,500	1,500
Retired.....	342,600	31,100	311,500	319,900	12,600	5,400	4,300	300	271,300	71,300
Student.....	61,000	25,000	36,000	41,700	11,300	4,600	3,200	200	58,800	2,200
On layoff from a job.....	25,700	8,800	16,900	21,000	2,800	700	1,200	100	23,400	2,300
Percentage distribution										
Total ¹	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Family responsibilities.....	11.2	38.4	1.8	11.0	11.5	7.7	18.5	3.3	12.8	3.4
Chronic illness or permanent disability.....	5.3	6.1	5.0	5.2	5.2	9.7	3.3	0.5	2.3	19.2
Suitable job not available.....	4.9	6.9	4.2	4.3	9.8	7.9	11.6	11.5	5.2	3.6
Did not need or want to work.....	14.4	30.4	9.0	13.9	19.3	22.7	12.8	13.3	16.2	6.0
Other reason.....	3.2	4.3	2.8	2.9	6.0	3.3	5.6	9.4	3.5	1.6
Retired.....	64.7	23.0	79.0	68.3	36.2	39.7	38.1	41.6	62.0	77.5
Student.....	11.5	18.5	9.1	8.9	32.2	34.0	28.2	27.7	13.4	2.4
On layoff from a job.....	4.9	6.5	4.3	4.5	8.1	5.3	10.1	8.4	5.3	2.5

¹ Because of rounding and because respondents could select more than one reason, details will not add to totals.

KEY: - = Fewer than 50 estimated.

NOTE: The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Total includes "other" race/ethnicity not shown separately. Figures are rounded to nearest hundred. Percentages are calculated from unrounded numbers.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-10. Part-time employed scientists and engineers, by preference for full-time employment and reason for working part time, sex, race/ethnicity, and disability status: 1997

Preference for full-time and reason for part-time	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native	Persons without disabilities	Persons with disabilities
Total...	264,400	127,300	137,100	230,400	17,600	7,500	8,200	700	243,400	21,000
Preference for full-time										
Did not want full-time...	232,500	115,300	117,200	205,300	14,000	5,400	7,300	500	215,100	17,400
Wanted full-time...	31,900	12,000	19,900	25,000	3,600	2,100	1,000	200	28,300	3,600
Reason for part-time										
Family responsibilities...	70,100	56,000	14,100	63,000	3,300	1,300	2,400	100	66,500	3,700
Chronic illness or permanent disability...	5,600	3,300	2,300	5,100	200	-	200	100	2,800	2,800
Did not need or want to work full-time...	116,300	63,000	53,300	103,600	5,900	2,500	3,900	300	109,000	7,300
Suitable full-time job not available...	37,000	16,000	21,000	29,600	3,600	2,000	1,500	200	33,700	3,300
Other reason...	19,100	9,200	10,000	16,200	1,800	800	300	-	17,300	1,800
Retired...	57,900	6,600	51,300	54,000	1,800	800	1,300	100	48,100	9,800
Student...	77,700	32,300	45,500	60,300	10,400	2,900	3,800	200	75,200	2,500

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details will not add to total because of rounding and because respondents could select more than one reason. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Total includes "other" race/ethnicity not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-11. Employment status of scientists and engineers, by age and disability status: 1997

Age and disability status	Total	Employed				Unemployed/ seeking employment	Retired	Not employed/ not seeking employment
		Total	Full-time	Part-time	Postdoctoral appointment			
All ages								
Persons without disabilities...	3,620,900	3,183,300	2,917,200	242,500	23,500	47,700	264,000	125,900
Persons with disabilities...	278,000	186,000	164,300	21,000	700	5,200	70,300	16,400
Younger than 35								
Persons without disabilities...	1,028,100	957,600	865,600	79,400	12,500	12,400	900	57,200
Persons with disabilities...	21,600	19,600	17,800	1,600	200	500	-	1,500
35 to 44								
Persons without disabilities...	1,127,900	1,075,000	1,008,000	57,800	9,200	11,200	1,900	39,800
Persons with disabilities...	47,500	43,000	39,800	3,000	200	600	300	3,500
45 to 54								
Persons without disabilities...	791,100	758,800	716,800	40,700	1,200	9,300	3,900	19,100
Persons with disabilities...	81,000	74,100	69,500	4,500	100	1,900	900	4,100
55 or older								
Persons without disabilities...	673,500	391,700	326,500	64,600	600	14,700	257,200	9,800
Persons with disabilities...	127,800	49,200	37,300	11,800	100	2,200	69,100	7,300
Percentage distribution:								
All ages								
Persons without disabilities...	100.0	87.9	80.6	6.7	0.7	1.3	7.3	3.5
Persons with disabilities...	100.0	66.9	59.1	7.5	0.2	1.9	25.3	5.9
Younger than 35								
Persons without disabilities...	100.0	93.1	84.2	7.7	1.2	1.2	0.1	5.6
Persons with disabilities...	100.0	90.8	82.3	7.4	1.1	2.2	0.0	7.0
35 to 44								
Persons without disabilities...	100.0	95.3	89.4	5.1	0.8	1.0	0.2	3.5
Persons with disabilities...	100.0	90.6	83.9	6.3	0.4	1.3	0.7	7.4
45 to 54								
Persons without disabilities...	100.0	95.9	90.6	5.1	0.2	1.2	0.5	2.4
Persons with disabilities...	100.0	91.4	85.7	5.6	0.1	2.4	1.1	5.1
55 or older								
Persons without disabilities...	100.0	58.2	48.5	9.6	0.1	2.2	38.2	1.5
Persons with disabilities...	100.0	38.5	29.1	9.3	0.1	1.7	54.1	5.7

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Percentages are calculated from unrounded numbers. Details may not add to total because of rounding. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-12. Employed scientists and engineers, by occupation, employment sector, sex, race/ethnicity, and disability status: 1997

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Occupation and employment sector	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/ Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/ Alaskan Native	Persons without disabilities	Persons with disabilities
Scientists and engineers total...	3,369,300	763,300	2,606,000	2,791,700	349,800	113,000	103,500	9,900	3,105,400	186,000
Elementary, middle, or secondary school...	37,200	22,900	14,300	32,600	700	1,900	1,900	200	34,800	2,300
2-year college...	59,500	24,100	35,300	52,200	2,100	2,900	2,100	200	54,000	5,100
4-year college or university...	252,300	70,200	182,200	203,700	29,900	8,100	9,500	1,000	235,700	14,400
Medical school...	47,500	19,500	28,000	37,800	6,800	1,200	1,400	300	45,900	1,500
University research institute...	36,900	11,400	25,500	28,100	6,000	1,000	1,600	200	34,700	1,900
Other educational institution...	14,400	6,300	8,000	12,000	1,100	900	300	-	13,500	900
Combined 4-year, medical school, or research institute ¹ ...	138,800	49,300	89,600	116,400	13,800	3,800	4,600	100	127,100	10,500
Private-for-profit...	2,001,300	355,100	1,646,200	1,653,500	225,700	60,200	57,000	4,700	1,850,600	99,000
Private-not-for-profit...	107,000	47,200	59,800	91,200	7,600	3,800	3,500	800	100,300	6,200
Self-employed, not incorporated...	110,100	36,900	73,200	102,300	4,300	1,000	2,200	300	99,000	7,600
Self-employed, incorporated...	77,500	12,700	64,800	68,700	6,000	1,600	1,000	100	68,500	6,300
Local government...	68,200	18,600	49,600	49,600	11,100	2,900	4,100	400	61,600	4,300
State government...	120,300	30,300	90,000	96,200	10,900	8,300	3,800	600	107,100	9,100
U.S. Military...	23,200	2,800	20,300	18,900	2,200	900	1,100	100	22,500	400
U.S. Government...	227,400	47,600	179,800	188,600	17,900	12,300	7,600	800	205,900	14,600
Other non-educational institution...	47,700	8,300	39,300	39,900	3,700	2,100	1,700	200	44,300	2,000
Computer and mathematical scientists, total...	1,039,500	280,900	758,600	839,400	126,600	44,900	26,200	1,800	986,900	52,500
Elementary, middle, or secondary school...	4,500	1,500	2,900	3,500	200	400	500	-	4,500	-
2-year college...	24,200	10,000	14,200	20,700	1,200	1,400	900	-	22,900	1,300
4-year college or university...	38,500	9,300	29,200	29,600	6,200	1,400	1,200	200	36,100	2,400
Medical school...	2,700	1,000	1,700	1,900	400	200	200	-	2,600	100
University research institute...	4,100	1,300	2,700	2,800	1,100	-	200	-	3,900	200
Other educational institution...	4,300	1,600	2,700	3,900	400	-	-	-	3,900	400
Combined 4-year, medical school, or research institute ¹ ...	43,000	17,500	25,400	37,100	2,900	1,400	1,400	-	41,300	1,700
Private-for-profit...	727,500	185,500	541,900	580,900	98,800	29,400	17,300	1,200	692,900	34,600
Private-not-for-profit...	32,000	13,400	18,600	28,000	2,200	800	800	200	29,600	2,400
Self-employed, not incorporated...	25,100	5,400	19,700	22,600	1,800	300	300	100	24,000	1,100
Self-employed, incorporated...	29,300	4,300	25,000	25,800	2,700	500	300	-	26,800	2,500
Local government...	12,800	5,500	7,300	9,300	1,900	700	900	-	12,000	800
State government...	23,300	7,400	15,900	17,300	1,900	3,100	400	100	21,900	1,500
U.S. Military...	4,300	600	3,700	3,100	700	200	300	-	4,300	-
U.S. Government...	49,000	12,800	36,100	40,900	2,900	4,000	1,200	-	45,700	3,300
Other non-educational institution...	15,100	3,700	11,400	12,000	1,200	1,200	600	100	14,600	500

See explanatory information and SOURCE at end of table.

Appendix table 5-12. Employed scientists and engineers, by occupation, employment sector, sex, race/ethnicity, and disability status: 1997

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Occupation and employment sector	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/ Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/ Alaskan Native	Persons without disabilities	Persons with disabilities
Life and related scientists, total...	321,800	115,900	205,900	272,400	32,300	7,700	8,000	1,400	303,100	18,700
Elementary, middle, or secondary school...	700	500	100	500	-	-	100	-	500	100
2-year college...	12,500	6,500	6,000	11,500	200	200	600	100	11,200	1,400
4-year college or university...	52,400	17,600	34,800	44,500	5,100	1,200	1,400	200	49,500	2,900
Medical school...	32,700	12,500	20,200	25,900	5,000	700	800	300	31,700	1,000
University research institute...	9,700	3,800	6,000	7,500	1,400	100	700	-	8,900	900
Other educational institution...	2,200	500	1,700	1,900	300	-	-	-	2,200	-
Combined 4-year, medical school, or research institute ¹ ...	44,300	18,900	25,500	36,100	6,000	900	1,300	-	41,300	3,100
Private-for-profit...	76,400	27,100	49,300	64,200	8,500	2,400	1,200	100	71,700	4,700
Private-not-for-profit...	13,300	6,300	6,900	11,400	1,400	200	200	-	12,600	600
Self-employed, not incorporated...	8,000	2,100	5,900	7,800	100	-	-	-	7,700	300
Self-employed, incorporated...	3,700	700	2,900	3,500	100	-	-	-	3,400	200
Local government...	6,700	2,400	4,300	4,500	1,000	400	500	200	6,500	200
State government...	20,000	6,400	13,600	18,700	600	200	300	300	18,500	1,500
U.S. Military...	2,000	700	1,300	1,800	200	-	100	-	2,000	-
U.S. Government...	35,900	9,600	26,400	31,300	2,300	1,300	800	200	34,100	1,800
Other non-educational institution...	1,300	400	900	1,200	100	-	-	-	1,300	-
Physical and related scientists, total...	284,900	61,800	223,100	240,200	27,900	8,400	7,200	900	269,200	15,700
Elementary, middle, or secondary school...	800	200	600	600	200	-	-	-	800	-
2-year college...	7,300	2,400	5,000	6,700	300	200	100	100	6,100	1,300
4-year college or university...	45,600	9,100	36,500	38,200	4,800	900	1,500	200	43,500	2,100
Medical school...	2,000	400	1,600	1,300	500	-	100	-	1,900	100
University research institute...	8,900	1,600	7,300	7,100	1,200	400	200	100	8,600	300
Other educational institution...	700	300	400	700	-	-	-	-	600	100
Combined 4-year, medical school, or research institute ¹ ...	14,600	2,800	11,800	12,900	1,200	100	500	-	12,100	2,400
Private-for-profit...	137,100	30,700	106,400	114,300	14,900	4,100	3,400	400	131,100	6,000
Private-not-for-profit...	5,100	1,300	3,800	4,200	700	-	200	-	4,900	200
Self-employed, not incorporated...	6,200	400	5,800	5,700	300	-	100	-	5,900	300
Self-employed, incorporated...	4,400	500	3,900	4,100	200	100	-	-	4,300	100
Local government...	5,300	1,500	3,800	3,900	800	400	-	100	5,100	200
State government...	12,900	2,900	10,000	10,800	900	800	300	-	12,100	800
U.S. Military...	2,600	400	2,200	2,300	-	200	100	-	2,600	-
U.S. Government...	27,900	6,800	21,100	23,900	1,900	1,200	800	-	26,100	1,800
Other non-educational institution...	3,300	300	3,000	3,300	100	-	-	-	3,300	-

See explanatory information and SOURCE at end of table.

Appendix table 5-12. Employed scientists and engineers, by occupation, employment sector, sex, race/ethnicity, and disability status: 1997

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Occupation and employment sector	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/ Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/ Alaskan Native	Persons without disabilities	Persons with disabilities
Social and related scientists, total...	349,000	181,100	167,900	302,600	13,300	16,500	14,400	2,000	327,800	21,200
Elementary, middle, or secondary school...	30,300	20,700	9,600	27,200	200	1,500	1,300	200	28,100	2,200
2-year college...	10,000	4,800	5,200	8,400	100	900	500	100	9,200	800
4-year college or university...	76,900	29,900	47,000	64,300	5,000	3,300	3,900	400	72,000	4,900
Medical school...	8,200	5,300	3,000	7,300	300	300	300	-	7,900	300
University research institute...	6,600	3,800	2,800	5,400	500	300	200	100	6,300	300
Other educational institution...	6,100	3,800	2,300	5,000	200	700	200	-	5,700	400
Combined 4-year, medical school, or research institute ¹	19,000	8,900	10,100	15,300	1,600	900	1,100	100	16,800	2,200
Private-for-profit...	53,300	26,900	26,300	47,800	2,200	1,300	1,900	100	51,300	2,000
Private-not-for-profit...	39,400	25,300	14,100	33,300	1,000	2,700	1,900	600	37,000	2,400
Self-employed, not incorporated...	41,700	27,200	14,500	40,100	300	600	500	200	39,400	2,400
Self-employed, incorporated...	10,500	4,900	5,600	10,000	100	300	-	-	9,800	700
Local government...	8,000	5,400	2,600	6,800	100	300	800	-	7,200	800
State government...	17,000	6,800	10,100	13,200	700	2,300	700	100	15,700	1,200
U.S. Military...	1,100	400	700	900	-	-	200	-	1,100	-
U.S. Government...	16,800	5,900	10,900	14,900	500	900	400	100	16,000	800
Other non-educational institution...	4,200	1,100	3,100	2,800	600	400	500	-	4,200	-
Engineers, total...	1,374,200	123,700	1,250,500	1,137,200	149,700	35,400	47,700	3,800	1,218,500	77,900
Elementary, middle, or secondary school...	900	-	900	800	100	-	-	-	900	-
2-year college...	5,400	500	4,900	4,900	200	100	100	-	4,600	400
4-year college or university...	39,000	4,300	34,700	27,100	8,800	1,400	1,600	100	34,600	2,200
Medical school...	1,900	300	1,600	1,300	500	-	-	-	1,800	-
University research institute...	7,700	900	6,700	5,300	1,800	200	400	-	7,000	300
Other educational institution...	1,000	-	1,000	500	200	200	100	-	1,000	-
Combined 4-year, medical school, or research institute ¹	18,000	1,200	16,800	15,000	2,200	500	300	-	15,600	1,200
Private-for-profit...	1,007,100	84,800	922,200	846,300	101,400	23,000	33,300	2,900	903,500	51,800
Private-not-for-profit...	17,200	800	16,400	14,300	2,300	200	400	100	16,100	500
Self-employed, not incorporated...	29,100	1,800	27,300	26,100	1,800	-	1,200	100	22,000	3,500
Self-employed, incorporated...	29,700	2,300	27,400	25,300	2,900	700	700	-	24,200	2,800
Local government...	35,500	3,800	31,700	25,100	7,300	1,200	1,900	-	30,800	2,400
State government...	47,200	6,800	40,400	36,200	6,900	1,800	2,200	100	39,000	4,100
U.S. Military...	13,200	800	12,400	10,800	1,200	600	400	100	12,500	300
U.S. Government...	97,800	12,500	85,300	77,500	10,300	4,900	4,500	500	83,900	6,900
Other non-educational institution...	23,700	2,800	20,900	20,700	1,800	600	600	100	20,800	1,400

See explanatory information and SOURCE at end of table.

¹ Data from the National Survey of College Graduates available only in the combined category due to reasons of confidentiality.

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2000

Appendix table 5-13. Scientists and engineers employed in academic institutions, by institutional type, highest degree, sex, race/ethnicity, and disability status: 1997

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Highest degree and type of institution	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native	Persons without disabilities	Persons with disabilities
All degrees...	586,600	203,700	382,800	482,800	60,400	19,800	21,400	1,900	549,900	36,700
Primary school...	19,800	13,300	6,500	17,400	200	1,000	1,100	100	18,800	1,000
Secondary school...	17,400	9,600	7,800	15,200	500	900	800	100	16,000	1,400
2-year college...	59,500	24,100	35,300	52,200	2,100	2,900	2,100	200	54,400	5,100
4-year college or university...	252,300	70,200	182,200	203,700	29,900	8,100	9,500	1,000	237,900	14,400
Medical school...	47,500	19,500	28,000	37,800	6,800	1,200	1,400	300	46,000	1,500
Research institute...	36,900	11,400	25,500	28,100	6,000	1,000	1,600	200	35,000	1,900
Other...	14,400	6,300	8,000	12,000	1,100	900	300	-	13,500	900
Combined 4-year, medical school, or research institute...	138,800	49,300	89,600	116,400	13,800	3,800	4,600	100	128,300	10,500
Bachelor's...	155,800	63,800	92,000	129,400	13,100	5,000	7,700	700	148,200	7,600
Primary school...	3,400	1,900	1,500	2,800	100	300	200	-	3,400	-
Secondary school...	4,000	1,800	2,200	3,500	200	100	200	100	3,900	100
2-year college...	13,900	5,800	8,100	12,400	500	800	300	-	13,200	700
4-year college or university...	65,800	26,200	39,500	53,100	6,100	2,100	4,100	400	64,000	1,800
Medical school...	9,000	5,200	3,800	7,700	500	300	300	200	8,600	400
Research institute...	11,400	4,400	6,900	9,300	1,100	400	600	-	10,600	700
Other...	3,700	1,300	2,400	2,400	500	500	300	-	3,500	200
Combined 4-year, medical school, or research institute...	44,600	17,100	27,500	38,300	4,100	600	1,700	-	40,800	3,800
Master's...	182,500	76,400	106,100	149,400	17,600	8,300	6,400	500	170,700	11,800
Primary school...	13,900	9,600	4,400	12,400	-	700	800	100	13,100	800
Secondary school...	10,800	6,700	4,100	9,500	200	700	400	-	9,600	1,200
2-year college...	36,600	15,200	21,400	32,100	900	1,800	1,700	200	33,000	3,600
4-year college or university...	43,700	13,500	30,200	32,000	7,900	1,900	1,600	200	41,400	2,300
Medical school...	4,800	2,600	2,200	3,200	1,200	300	100	100	4,800	-
Research institute...	7,800	3,000	4,700	4,600	2,400	400	400	-	7,600	100
Other...	7,900	3,800	4,000	7,500	200	200	-	-	7,700	200
Combined 4-year, medical school, or research institute...	57,100	21,900	35,100	48,200	4,800	2,400	1,400	-	53,500	3,600

See explanatory information and SOURCE at end of table.

Appendix table 5-13. Scientists and engineers employed in academic institutions, by institutional type, highest degree, sex, race/ethnicity, and disability status: 1997

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Highest degree and type of institution	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native	Persons without disabilities	Persons with disabilities
Doctorate.....	235,500	60,500	175,000	192,500	28,900	6,300	6,900	800	219,900	15,600
Primary school.....	1,700	1,100	600	1,500	100	100	100	-	1,600	100
Secondary school.....	2,300	900	1,400	2,000	100	-	200	-	2,200	100
2-year college.....	8,200	3,200	5,100	7,000	700	300	100	-	7,600	600
4-year college or university.....	142,800	30,300	112,500	118,500	15,900	4,100	3,800	400	132,400	10,400
Medical school.....	33,200	11,500	21,700	26,500	5,000	600	1,000	100	32,100	1,100
Research institute.....	17,700	3,900	13,800	14,200	2,500	300	600	100	16,700	1,000
Other.....	2,500	1,100	1,400	1,800	400	200	-	-	2,100	400
Combined 4-year, medical school, or research institute.....	27,000	8,400	18,600	21,100	4,200	600	1,000	100	25,200	1,800

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "professional and other degrees" and "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2000

Appendix table 5-14. Science and engineering Ph.D. faculty employed full time in academic institutions, by Carnegie classification of academic institution, sex, and race/ethnicity: 1995

Carnegie classification	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non- Hispanic	Asian/ Pacific Islander	Black, non- Hispanic	Hispanic	American Indian/ Alaskan Native	Persons without disabilities	Persons with disabilities
Number										
Total...	174,600	36,600	138,000	149,400	15,100	4,700	4,600	800	164,900	9,700
Research University I...	64,100	12,500	51,600	55,100	6,000	1,300	1,500	200	61,200	2,900
Research University II...	15,500	2,700	12,700	13,300	1,500	200	400	100	14,400	1,100
Doctorate Granting I...	9,800	1,900	7,900	8,200	900	400	200	100	9,100	700
Doctorate Granting II...	11,900	2,100	9,800	10,100	1,100	300	400	-	11,100	800
Comprehensive I...	33,600	7,400	26,100	28,000	2,900	1,500	1,000	200	31,300	2,200
Comprehensive II...	2,700	700	2,100	2,400	200	100	100	-	2,600	100
Liberal Arts...	14,800	3,600	11,200	13,300	800	400	200	-	13,900	900
Two-Year Institutions...	4,200	1,100	3,100	3,600	300	200	100	-	4,000	200
Medical schools and medical centers...	8,700	2,700	6,000	7,600	600	200	300	100	8,200	400
Other specialized institutions...	2,800	500	2,300	2,400	300	-	100	-	2,700	100
Missing...	6,500	1,300	5,300	5,400	700	100	200	-	6,300	300
Percent ¹										
Total...	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Research University I...	38.1	35.4	38.9	38.3	41.7	28.3	34.1	25.0	38.6	30.9
Research University II...	9.2	7.6	9.6	9.2	10.4	4.3	9.1	12.5	9.1	11.7
Doctorate Granting I...	5.8	5.4	6.0	5.7	6.3	8.7	4.5	12.5	5.7	7.4
Doctorate Granting II...	7.1	5.9	7.4	7.0	7.6	6.5	9.1	*	7.0	8.5
Comprehensive I...	20.0	21.0	19.7	19.4	20.1	32.6	22.7	25.0	19.7	23.4
Comprehensive II...	1.6	2.0	1.6	1.7	1.4	2.2	2.3	*	1.6	1.1
Liberal Arts...	8.8	10.2	8.4	9.2	5.6	8.7	4.5	*	8.8	9.6
Two-Year Institutions...	2.5	3.1	2.3	2.5	2.1	4.3	2.3	*	2.5	2.1
Medical schools and medical centers...	5.2	7.6	4.5	5.3	4.2	4.3	6.8	12.5	5.2	4.3
Other specialized institutions...	1.7	1.4	1.7	1.7	2.1	*	2.3	*	1.7	1.1

¹ Percentages based on cases where Carnegie classification is known.

KEY: - = Fewer than 50 estimated.

* = Cannot be calculated.

NOTE: Figures are rounded to nearest hundred. Percentages are calculated from unrounded numbers. Details may not add to total because of rounding. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1995 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-15. Full-time ranked doctoral scientists and engineers at 4-year colleges and universities, by rank, years since doctorate, sex, race/ethnicity, and disability status: 1997

Years since doctorate and rank	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native	Persons without disabilities	Persons with disabilities
Total...	143,200	27,900	115,300	120,600	14,100	3,800	4,000	500	132,900	10,300
Professor...	65,100	6,800	58,300	57,200	5,200	1,200	1,300	300	58,900	6,300
Associate professor...	41,600	9,100	32,500	35,000	3,700	1,300	1,400	200	38,700	2,900
Assistant professor...	36,500	12,000	24,500	28,400	5,200	1,300	1,400	100	35,400	1,100
Less than 10	43,400	13,100	30,300	33,100	6,700	1,600	1,800	100	42,100	1,400
Professor...	1,400	400	1,100	900	500	100	-	-	1,400	-
Associate professor...	11,600	2,800	8,900	9,000	1,600	400	600	-	11,200	500
Assistant professor...	30,400	10,000	20,400	23,200	4,700	1,100	1,200	100	29,500	900
10 to 19	42,600	9,200	33,500	36,400	3,700	1,100	1,300	100	39,800	2,800
Professor...	17,200	2,500	14,600	14,600	1,700	400	500	-	15,700	1,500
Associate professor...	20,500	4,900	15,600	17,600	1,600	600	700	100	19,300	1,300
Assistant professor...	4,900	1,700	3,200	4,100	500	200	100	-	4,800	100
20 to 29	41,700	4,900	36,700	37,200	2,500	900	800	200	37,600	4,000
Professor...	32,900	3,400	29,500	29,400	2,100	600	600	200	30,000	3,000
Associate professor...	7,700	1,300	6,500	6,900	300	300	200	-	6,700	1,000
Assistant professor...	1,000	300	700	800	100	-	-	-	900	100
30 or more	15,500	700	14,800	14,000	1,200	100	100	100	13,400	2,000
Professor...	13,600	500	13,100	12,300	1,000	100	100	100	11,800	1,800
Associate professor...	1,700	200	1,500	1,600	100	-	-	-	1,500	200
Assistant professor...	100	-	100	100	-	-	-	-	100	-

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2000

Appendix table 5-16. Full-time doctoral scientists and engineers at 4-year colleges and universities, by tenure status, years since doctorate, sex, race/ethnicity, and disability status: 1997

Years since doctorate and tenure	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native	Persons without disabilities	Persons with disabilities
Total...	179,200	39,800	139,400	147,500	21,400	4,600	5,000	600	167,600	11,600
Tenured...	97,300	13,900	83,400	84,400	8,000	2,100	2,400	400	88,500	8,800
On tenure track, not tenured...	30,700	9,500	21,200	23,700	4,200	1,300	1,400	100	29,800	900
Not on tenure track...	19,300	6,300	13,000	14,700	3,600	300	600	-	18,600	700
No tenure system at institution/ for my position...	31,900	10,100	21,800	24,700	5,600	800	800	100	30,700	1,200
Less than 10...	69,400	22,500	46,900	51,100	13,200	2,200	2,600	200	67,400	2,000
Tenured...	10,900	2,600	8,300	8,400	1,700	300	400	-	10,400	500
On tenure track, not tenured...	24,900	7,900	17,100	18,800	3,700	1,100	1,200	100	24,200	700
Not on tenure track...	12,700	4,400	8,300	9,100	3,000	300	400	-	12,400	300
No tenure system at institution/ for my position...	20,800	7,600	13,200	14,800	4,800	600	600	-	20,300	500
10 to 19...	48,500	10,800	37,800	41,300	4,400	1,300	1,400	100	45,300	3,300
Tenured...	33,500	6,300	27,200	28,600	2,900	900	1,000	100	30,900	2,600
On tenure track, not tenured...	4,800	1,500	3,300	4,000	400	200	100	-	4,700	100
Not on tenure track...	4,100	1,300	2,800	3,500	400	100	200	-	3,900	200
No tenure system at institution/ for my position...	6,200	1,700	4,500	5,300	600	200	100	-	5,800	300
20 to 29...	45,000	5,800	39,200	40,300	2,700	900	900	200	40,800	4,200
Tenured...	38,400	4,400	34,000	34,300	2,300	800	800	200	34,600	3,800
On tenure track, not tenured...	900	200	700	800	-	-	-	-	800	100
Not on tenure track...	1,900	500	1,400	1,700	200	-	-	-	1,800	100
No tenure system at institution/ for my position...	3,800	700	3,000	3,600	100	-	-	-	3,500	300
30 or more...	16,300	800	15,500	14,800	1,200	100	100	100	14,200	2,100
Tenured...	14,500	600	13,900	13,200	1,100	100	100	100	12,600	1,900
On tenure track, not tenured...	100	-	100	100	-	-	-	-	100	-
Not on tenure track...	500	100	400	500	-	-	-	-	400	100
No tenure system at institution/ for my position...	1,200	100	1,000	1,000	100	-	-	-	1,000	100

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-17. Percentage of full-time ranked doctoral scientists and engineers employed in 4-year colleges or universities who are supported by Federal grants or contracts, by occupation, sex, race/ethnicity, and disability status: 1997

Occupation	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native	Persons without disabilities	Persons with disabilities
Total science and engineering... ..	37.2	34.1	37.9	36.9	42.4	28.8	36.9	22.5	37.8	29.3
Computer/mathematical sciences... ..	23.7	25.2	23.5	22.3	29.8	22.4	28.0	13.8	24.8	10.1
Life and related sciences... ..	55.1	55.2	55.1	54.8	59.3	34.2	67.8	37.7	55.8	46.2
Physical and related sciences... ..	43.3	36.6	44.2	43.3	37.5	50.6	50.9	34.1	44.0	31.1
Social and related sciences... ..	17.3	19.7	16.3	17.7	13.1	20.6	11.5	11.5	17.3	18.3
Engineering... ..	50.6	45.5	50.9	48.6	61.2	41.2	43.2	34.2	51.4	39.4

NOTE: The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Total includes "other" race/ethnicity not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2000

Appendix table 5-18. Full-time doctoral scientists and engineers in 4-year colleges or universities, by academic rank, sex, and race/ethnicity: 1997

Sex and rank	Total	White, non- Hispanic	Asian/ Pacific Islander	Black, non- Hispanic	Hispanic	American Indian/ Alaskan Native
Both sexes						
Total...	179,100	147,400	21,400	4,600	5,000	600
Professor...	65,100	57,200	5,200	1,200	1,300	300
Associate professor...	41,600	35,000	3,700	1,300	1,400	200
Assistant professor...	36,400	28,300	5,200	1,300	1,400	100
Instructor...	2,700	1,800	600	100	100	-
Lecturer...	2,200	1,900	200	-	100	-
Adjunct faculty...	2,900	2,500	300	-	100	-
Other...	200	100	-	-	-	-
Not applicable at this institution/ for my position...	28,100	20,400	6,200	600	800	-
Women						
Total...	39,800	32,200	4,600	1,400	1,400	100
Professor...	6,800	6,100	500	100	100	-
Associate professor...	9,100	7,800	500	400	400	-
Assistant professor...	12,000	9,500	1,300	600	500	-
Instructor...	1,200	1,000	100	-	-	-
Lecturer...	900	800	100	-	-	-
Adjunct faculty...	1,000	900	100	-	-	-
Other...	100	100	-	-	-	-
Not applicable at this institution/ for my position...	8,800	6,200	2,000	300	300	-
Men						
Total...	139,400	115,200	16,800	3,200	3,700	500
Professor...	58,300	51,100	4,700	1,000	1,200	300
Associate professor...	32,500	27,200	3,200	1,000	1,000	100
Assistant professor...	24,400	18,800	3,900	700	900	100
Instructor...	1,500	900	500	100	100	-
Lecturer...	1,300	1,100	100	-	-	-
Adjunct faculty...	1,900	1,700	200	-	-	-
Other...	100	100	-	-	-	-
Not applicable at this institution/ for my position...	19,300	14,300	4,200	400	500	-

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-19. Full-time doctoral scientists and engineers in 4-year colleges or universities, by sex, race/ethnicity, and tenure: 1997

Sex and rank	Total	White, non- Hispanic	Asian/ Pacific Islander	Black, non- Hispanic	Hispanic	American Indian/ Alaskan Native
Both sexes						
Total...	179,100	147,400	21,400	4,600	5,000	600
Tenured...	97,300	84,400	8,000	2,100	2,400	400
On tenure track but not tenured...	30,700	23,700	4,200	1,300	1,400	100
Not on tenure track...	19,300	14,700	3,600	300	600	-
No tenure system at this institution/ for my position...	31,900	24,600	5,600	800	800	100
Women						
Total...	39,800	32,200	4,600	1,400	1,400	100
Tenured...	13,900	12,200	800	400	400	-
On tenure track but not tenured...	9,500	7,500	1,000	500	400	-
Not on tenure track...	6,300	4,900	1,000	100	200	-
No tenure system at this institution/for my position...	10,100	7,600	1,800	400	300	-
Men						
Total...	139,400	115,200	16,800	3,200	3,700	500
Tenured...	83,400	72,200	7,200	1,700	1,900	400
On tenure track but not tenured...	21,100	16,100	3,200	800	900	100
Not on tenure track...	13,000	9,800	2,700	200	300	-
No tenure system at this institution/for my position...	21,800	17,000	3,800	400	500	-

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Total includes "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-20. Scientists and engineers employed in business or industry, by primary or secondary work activity, age, sex, race/ethnicity, and disability status: 1997

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Primary or secondary work activity and age	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native	Persons without disabilities	Persons with disabilities
Total...	2,343,600	460,200	1,883,400	1,955,600	247,400	68,700	65,500	6,100	2,222,600	121,000
Research and development...	1,299,200	209,300	1,089,900	1,077,400	150,700	34,700	33,400	2,800	1,235,300	63,900
Teaching...	62,000	21,700	40,300	53,500	3,200	3,100	2,000	200	57,900	4,100
Management/administration...	1,080,500	200,100	880,400	926,300	91,400	28,000	31,900	2,800	1,027,400	53,100
Computer applications...	987,600	210,300	777,300	793,100	129,600	35,600	26,400	2,900	940,300	47,200
Other...	443,600	114,000	329,500	387,800	28,900	12,000	12,900	2,000	415,700	27,900
Younger than age 35...	695,400	164,500	531,000	546,300	95,600	26,900	24,400	2,200	682,200	13,200
Research and development...	396,200	84,800	311,400	308,800	57,600	15,100	13,700	1,000	387,800	8,400
Teaching...	14,800	6,100	8,700	11,500	1,400	1,100	800	-	14,700	100
Management/administration...	314,000	75,800	238,200	255,300	35,100	10,800	11,900	900	307,700	6,300
Computer applications...	327,800	74,300	253,500	246,700	55,900	14,300	9,500	1,400	322,300	5,500
Other...	91,900	29,600	62,300	75,100	8,500	3,300	4,400	600	90,500	1,300
Age 35 to 44...	827,100	171,500	655,600	695,000	79,500	26,100	24,600	1,700	794,500	32,600
Research and development...	468,500	77,800	390,700	392,900	49,200	12,900	12,300	900	451,500	17,000
Teaching...	16,700	4,900	11,800	13,700	1,000	1,300	600	100	15,700	1,100
Management/administration...	381,400	76,600	304,800	331,700	26,200	11,000	11,900	700	366,000	15,500
Computer applications...	378,300	85,000	293,300	308,100	45,000	13,200	11,200	800	362,800	15,500
Other...	138,200	36,800	101,400	120,400	9,300	4,000	3,800	700	132,400	5,800
Age 45 to 54...	544,500	93,800	450,700	467,800	52,800	12,200	10,800	1,000	496,300	48,300
Research and development...	281,700	35,600	246,100	240,700	31,700	4,700	4,300	200	258,000	23,800
Teaching...	19,300	8,200	11,000	17,200	700	700	600	-	17,400	1,800
Management/administration...	263,400	39,100	224,300	231,600	21,100	4,700	5,300	700	241,800	21,600
Computer applications...	211,500	41,400	170,100	177,800	22,700	6,500	4,300	300	191,000	20,500
Other...	130,700	31,600	99,000	116,600	6,800	3,700	3,100	500	119,500	11,200

See explanatory information and SOURCE at end of table.

Appendix table 5-20. Scientists and engineers employed in business or industry, by primary or secondary work activity, age, sex, race/ethnicity, and disability status: 1997

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Primary or secondary work activity and age	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native	Persons without disabilities	Persons with disabilities
Age 55 or older... ..	276,200	30,300	245,900	246,400	19,400	3,500	5,800	1,100	249,300	26,900
Research and development... ..	152,500	11,000	141,500	134,800	12,000	2,000	3,100	700	137,700	14,800
Teaching... ..	11,200	2,500	8,800	11,100	100	-	-	100	10,100	1,100
Management/administration... ..	121,600	8,600	113,000	107,700	9,000	1,500	2,800	600	111,900	9,700
Computer applications... ..	69,800	9,600	60,200	60,400	5,900	1,600	1,400	500	64,000	5,800
Other... ..	82,800	15,900	66,900	75,700	4,300	1,100	1,600	200	73,300	9,500

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details will not add to total because of rounding. Sum of primary/secondary work activity categories exceeds total because of multiple response. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Total includes "other" race/ethnicity not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2000

Appendix table 5-21. Median number of direct and indirect subordinates for supervisory and managerial scientists and engineers employed in business or industry, by age, sex, race/ethnicity, and disability status: 1997

Sex, race/ethnicity, and disability status	Age				
	Total	Younger than 35	35–44	45–54	55 or older
Total...	10	6	10	13	13
Sex					
Women...	7	5	7	8	10
Men...	10	6	10	14	13
Race/ethnicity					
White, non-Hispanic...	10	6	10	14	14
Asian/Pacific Islander...	5	5	6	5	8
Black, non-Hispanic...	12	7	14	15	20
Hispanic...	10	6	13	10	24
American Indian/Alaskan Native...	5	3	5	10	10
Disability status					
Persons without disabilities...	10	6	10	13	13
Persons with disabilities...	11	6	8	13	14

NOTE: The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Total includes "other" race/ethnicity not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-22. Scientists and engineers employed in government, by primary or secondary work activity– management, age, sex, race/ethnicity, and disability status: 1997

Primary or secondary work activity and age	Total	Sex		Race/ethnicity					Disability status	
		Women	Men	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native	Persons without disabilities	Persons with disabilities
Total...	439,100	99,400	339,800	353,300	42,000	24,500	16,500	1,800	410,800	28,300
Other...	211,900	53,500	158,400	168,900	23,500	10,500	7,400	1,000	197,900	14,000
Management...	227,200	45,900	181,300	184,500	18,500	14,000	9,100	800	212,900	14,300
Percent management...	51.7	46.2	53.4	52.2	44.0	57.2	55.2	45.5	51.8	50.6
Less than 35...	98,700	31,200	67,500	76,400	8,800	6,300	6,400	600	96,800	1,800
Other...	53,900	18,600	35,400	41,900	5,600	3,000	3,000	500	53,000	900
Management...	44,700	12,600	32,100	34,600	3,300	3,300	3,400	200	43,800	900
Percent management...	45.3	40.5	47.6	45.2	36.8	52.1	53.5	28.3	45.3	48.8
35 to 44	142,000	37,600	104,400	110,300	14,000	10,100	6,100	800	137,000	5,000
Other...	68,000	19,300	48,800	52,500	7,500	4,800	2,300	300	65,900	2,100
Management...	74,000	18,300	55,700	57,700	6,500	5,300	3,800	500	71,100	2,900
Percent management...	52.1	48.8	53.3	52.4	46.6	52.3	63.0	57.9	51.9	57.9
45 to 54	140,600	25,200	115,400	119,400	12,700	6,100	2,000	200	126,400	14,100
Other...	62,200	12,300	49,900	52,300	6,700	2,000	1,200	100	55,400	6,900
Management...	78,300	12,800	65,500	67,100	5,900	4,200	800	200	71,100	7,200
Percent management...	55.7	51.0	56.7	56.2	46.9	67.9	40.0	72.5	56.2	51.2
55 or older	57,900	5,400	52,400	47,300	6,500	2,000	2,000	200	50,500	7,300
Other...	27,700	3,300	24,300	22,200	3,700	700	900	100	23,600	4,000
Management...	30,200	2,100	28,100	25,000	2,800	1,300	1,000	-	26,900	3,300
Percent management...	52.2	38.6	53.6	53.0	43.0	65.2	52.3	15.0	53.2	44.9

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Percentages are calculated from unrounded numbers. Details will not add to total because of rounding. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Total includes "other" race/ethnicity not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2000

Appendix table 5-23. Scientists and engineers employed in business or industry, by sex, race/ethnicity, and primary or secondary work activity: 1997

Primary or secondary work activity and sex	Total	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native
Total...	2,343,600	1,955,600	247,400	68,700	65,500	6,100
Women...	460,200	369,500	53,100	22,600	13,500	1,400
Men...	1,883,400	1,586,100	194,300	46,100	52,000	4,700
Research and development						
Women...	209,300	164,100	27,700	11,100	5,700	700
Men...	1,089,900	913,300	123,000	23,600	27,700	2,200
Teaching						
Women...	21,700	19,000	700	1,300	600	100
Men...	40,300	34,500	2,500	1,800	1,500	100
Management and administration						
Women...	200,100	165,600	18,100	9,000	6,800	600
Men...	880,400	760,700	73,400	19,000	25,100	2,300
Computer applications						
Women...	210,300	159,200	32,200	11,900	6,100	800
Men...	777,300	633,900	97,400	23,700	20,300	2,100
Other						
Women...	114,000	99,800	5,900	4,100	3,700	500
Men...	329,500	288,000	22,900	7,900	9,300	1,400

KEY: - = Fewer than 50 estimated.

NOTE: Figures are rounded to nearest hundred. Details may not add to total because of rounding. Sum of primary/secondary work activity categories exceeds total because of multiple response. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Total includes "other" race/ethnicity not shown separately.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-24. Median annual salary of full-time employed scientists and engineers, by highest degree, occupation, sex, and age: 1997

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Occupation and age	Sex	Highest degree			
		All degrees	Bachelor's	Master's	Doctorate
Scientists and engineers total		In dollars			
All ages...	Women	47,000	45,000	48,000	50,000
	Men	58,000	55,000	60,000	65,000
20–29...	Women	34,500	34,500	35,000	31,000
	Men	40,000	40,000	44,000	47,000
30–39...	Women	48,000	48,800	49,700	42,000
	Men	55,000	54,000	58,700	54,900
40–49...	Women	52,000	51,000	51,600	54,000
	Men	62,000	60,000	65,000	65,000
50 or older...	Women	50,000	49,200	50,000	58,000
	Men	67,000	62,400	68,700	73,500
Computer and mathematical scientists					
20–29...	Women	40,000	40,000	45,000	41,800
	Men	45,000	44,000	50,000	47,500
30–39...	Women	51,000	50,000	54,000	56,000
	Men	57,000	55,000	60,000	64,000
40–49...	Women	55,000	51,400	60,000	60,000
	Men	61,000	60,000	65,500	67,800
50 or older...	Women	55,000	52,500	60,000	52,300
	Men	64,000	60,000	66,000	70,000
Life and related scientists					
20–29...	Women	25,000	24,700	29,000	25,000
	Men	21,000	20,000	27,000	25,000
30–39...	Women	35,000	32,000	35,200	35,000
	Men	37,000	37,000	32,000	40,000
40–49...	Women	47,900	45,000	42,000	53,000
	Men	52,000	42,000	49,900	61,800
50 or older...	Women	45,000	37,000	42,000	60,000
	Men	60,000	48,500	52,000	72,000

See explanatory information and SOURCE at end of table.

Appendix table 5-24. Median annual salary of full-time employed scientists and engineers, by highest degree, occupation, sex, and age: 1997

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Occupation and age	Sex	Highest degree			
		All degrees	Bachelor's	Master's	Doctorate
		In dollars			
Physical and related scientists					
20–29... ..	Women	27,600	27,000	31,000	35,000
	Men	29,000	29,000	26,000	43,000
30–39... ..	Women	42,000	38,000	45,000	47,000
	Men	45,000	42,000	46,000	51,000
40–49... ..	Women	52,000	45,000	52,000	58,000
	Men	59,000	52,000	59,000	69,300
50 or older... ..	Women	50,000	46,000	52,200	61,500
	Men	69,700	60,000	60,000	78,000
Social and related scientists					
20–29... ..	Women	25,000	23,000	29,000	30,000
	Men	22,000	21,000	28,500	39,000
30–39... ..	Women	36,000	29,000	35,000	40,000
	Men	42,000	33,000	41,000	46,000
40–49... ..	Women	47,000	36,000	40,000	50,000
	Men	53,400	50,000	50,000	57,000
50 or older... ..	Women	46,500	21,000	44,000	55,000
	Men	60,000	35,000	50,000	65,000
Engineers					
20–29... ..	Women	41,600	41,000	43,000	40,000
	Men	41,000	40,000	45,000	60,000
30–39... ..	Women	53,700	52,000	58,000	58,900
	Men	56,000	55,000	60,000	65,000
40–49... ..	Women	57,700	55,400	64,000	68,000
	Men	65,000	62,400	68,000	74,000
50 or older... ..	Women	55,000	55,000	45,000	75,800
	Men	70,000	65,000	73,000	82,000

KEY: - = Fewer than 20 individuals reporting salary.

NOTE: Total includes "professional and other degrees" not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Median salary rounded to nearest hundred dollars.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-25. Median annual salary of full-time employed scientists and engineers, by highest degree, occupation, race/ethnicity, and age: 1997

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Occupation and race/ethnicity	All degrees					Bachelor's				
	All ages	20-29	30-39	40-49	50 or older	All ages	20-29	30-39	40-49	50 or older
	In dollars									
Scientists and engineers total										
White, non-Hispanic...	55,000	38,000	54,000	60,000	65,000	53,000	38,000	53,000	60,000	62,000
Asian/Pacific Islander...	55,000	37,000	48,000	50,000	56,000	50,000	40,000	51,000	55,000	56,000
Black, non-Hispanic...	48,000	45,000	54,000	60,000	65,000	47,500	37,000	48,000	51,100	55,000
Hispanic...	50,000	37,000	50,400	55,000	62,000	49,500	35,000	50,000	55,000	60,000
American Indian/Alaskan Native...	46,000	30,000	49,000	50,000	52,700	40,000	30,000	-	-	-
Computer/mathematical scientists										
White, non-Hispanic...	56,900	42,000	55,000	60,000	62,000	55,000	42,000	54,000	59,000	60,000
Asian/Pacific Islander...	56,000	48,000	59,200	60,000	61,000	50,000	46,000	53,000	55,000	52,000
Black, non-Hispanic...	48,000	35,000	48,000	50,000	55,000	47,000	35,000	48,000	50,000	-
Hispanic...	53,000	40,000	55,000	60,000	50,000	50,000	38,000	50,000	53,000	-
American Indian/Alaskan Native...	53,000	-	-	-	-	-	-	-	-	-
Life and related scientists										
White, non-Hispanic...	45,000	24,000	36,000	50,000	58,000	36,000	23,000	35,000	43,000	45,000
Asian/Pacific Islander...	40,000	28,000	34,000	50,000	64,000	35,000	-	-	-	-
Black, non-Hispanic...	46,000	27,000	36,000	47,000	60,000	46,000	-	-	-	-
Hispanic...	40,000	19,000	35,000	48,000	58,500	33,000	19,000	-	-	-
American Indian/Alaskan Native...	27,000	-	38,000	27,000	-	-	-	-	-	-
Physical and related scientists										
White, non-Hispanic...	50,100	27,800	45,000	57,000	67,200	43,000	27,500	42,000	52,000	57,000
Asian/Pacific Islander...	50,000	32,000	46,000	52,000	60,000	40,000	32,000	-	-	-
Black, non-Hispanic...	42,000	31,500	41,000	50,100	52,000	41,000	31,000	-	-	-
Hispanic...	41,300	27,000	35,800	55,000	59,000	34,000	-	-	-	-
American Indian/Alaskan Native...	49,000	-	-	-	-	-	-	-	-	-
Social and related scientists										
White, non-Hispanic...	45,000	24,000	38,000	50,000	54,000	25,000	22,500	29,000	50,000	-
Asian/Pacific Islander...	44,000	29,500	45,000	48,000	64,000	25,000	-	-	-	-
Black, non-Hispanic...	36,700	20,400	35,000	38,000	50,000	27,500	-	-	-	-
Hispanic...	40,000	22,500	42,900	41,000	54,000	22,500	-	-	-	-
American Indian/Alaskan Native...	30,000	-	-	-	40,000	-	-	-	-	-
Engineer										
White, non-Hispanic...	60,000	41,000	56,000	65,000	70,000	56,700	40,000	55,000	62,600	65,600
Asian/Pacific Islander...	58,000	45,000	55,000	63,000	66,000	51,000	44,000	50,000	60,000	60,000
Black, non-Hispanic...	52,000	42,000	52,000	58,600	60,000	50,000	41,000	52,000	58,000	-
Hispanic...	54,000	40,000	54,000	60,000	66,600	52,000	40,000	51,000	55,000	65,000
American Indian/Alaskan Native...	50,000	-	54,000	53,000	-	50,000	-	-	-	-

See explanatory information and SOURCE at end of table.

Appendix table 5-25. Median annual salary of full-time employed scientists and engineers, by highest degree, occupation, race/ethnicity, and age: 1997

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Occupation and race/ethnicity	Master's					Doctorate				
	All ages	20-29	30-39	40-49	50 or older	All ages	20-29	30-39	40-49	50 or older
In dollars										
Scientists and engineers total										
White, non-Hispanic...	60,000	39,000	57,000	62,000	65,000	62,800	39,000	50,000	62,400	70,300
Asian/Pacific Islander...	59,000	50,000	55,000	60,000	66,000	63,000	52,000	55,000	65,000	74,000
Black, non-Hispanic ...	48,000	36,000	48,100	48,500	57,000	55,000	-	47,000	54,000	58,000
Hispanic...	55,000	41,000	55,000	56,000	63,000	56,000	-	46,000	54,600	70,000
American Indian/Alaskan Native...	49,000	-	-	-	-	52,000	-	41,000	50,000	60,000
Computer/mathematical scientists										
White, non-Hispanic...	61,000	46,000	60,000	65,000	66,000	65,000	42,000	60,000	65,000	68,500
Asian/Pacific Islander...	60,000	53,000	60,000	63,000	66,000	65,000	50,000	64,000	70,000	70,000
Black, non-Hispanic ...	52,000	48,000	50,000	57,600	-	63,000	-	70,000	80,000	59,000
Hispanic...	60,000	48,000	63,200	-	-	55,000	-	58,900	60,000	52,500
American Indian/Alaskan Native...	-	-	-	-	-	55,000	-	-	-	-
Life and related scientists										
White, non-Hispanic...	42,000	29,000	35,000	48,000	50,000	60,000	25,000	40,000	60,000	70,000
Asian/Pacific Islander...	39,000	-	37,000	-	-	48,000	27,000	30,000	52,000	71,000
Black, non-Hispanic ...	39,000	-	-	-	-	55,000	-	39,700	50,000	65,000
Hispanic...	33,000	-	-	-	-	56,000	-	40,000	56,000	78,000
American Indian/Alaskan Native...	-	-	-	-	-	55,000	-	35,000	50,000	-
Physical and related scientists										
White, non-Hispanic...	52,000	28,000	47,000	59,000	58,000	67,000	43,000	50,000	68,000	77,000
Asian/Pacific Islander...	44,000	-	40,000	44,000	-	60,000	-	53,000	61,500	75,000
Black, non-Hispanic ...	41,000	-	-	-	-	60,000	-	47,000	60,000	78,000
Hispanic...	47,500	-	-	-	-	60,000	-	46,000	60,000	75,000
American Indian/Alaskan Native...	-	-	-	-	-	58,000	-	-	-	-
Social and related scientists										
White, non-Hispanic...	42,000	28,500	37,000	46,000	47,000	55,000	31,000	42,000	55,000	62,000
Asian/Pacific Islander...	38,000	-	-	-	-	50,000	-	48,000	48,000	68,000
Black, non-Hispanic ...	35,000	-	-	36,000	-	50,000	-	44,500	50,000	56,500
Hispanic...	45,000	-	45,000	-	-	50,000	-	45,000	46,000	59,000
American Indian/Alaskan Native...	-	-	-	-	-	49,000	-	-	-	50,000
Engineer										
White, non-Hispanic...	65,000	45,000	60,000	69,000	74,000	75,000	52,000	65,000	75,000	83,000
Asian/Pacific Islander...	60,000	45,000	55,000	63,000	70,000	70,000	65,000	64,200	72,000	81,000
Black, non-Hispanic ...	58,000	44,400	51,000	62,000	-	67,000	-	63,000	54,000	75,000
Hispanic...	58,500	43,000	57,000	65,000	75,000	66,200	-	62,000	65,000	70,000
American Indian/Alaskan Native...	-	-	-	-	-	88,000	-	-	-	-

KEY: - = Fewer than 20 individuals reporting salary.

NOTE: Total includes "professional and other degrees" and "other" race/ethnicity not shown separately. The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Median salary rounded to nearest hundred dollars.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-26. Median annual salary of full-time employed scientists and engineers, by occupation, age, sex, and race/ethnicity: 1997

Occupation and age	Women					Men				
	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native	White, non-Hispanic	Asian/Pacific Islander	Black, non-Hispanic	Hispanic	American Indian/Alaskan Native
	In dollars									
Scientists and engineers total										
20-29...	33,000	40,000	35,000	34,000	-	40,000	45,000	38,000	38,000	30,000
30-39...	48,000	52,800	45,000	46,000	33,000	55,000	55,000	50,000	53,000	53,000
40-49...	52,000	50,000	47,000	49,500	42,000	62,000	62,000	52,000	60,000	53,000
50 or older...	50,000	50,000	43,000	47,000	30,000	67,000	67,000	57,000	65,000	63,000
Computer/mathematical scientists										
20-29...	40,000	46,000	35,000	38,000	-	44,500	49,000	38,000	41,000	-
30-39...	51,000	55,000	46,000	50,400	-	57,000	60,000	50,000	55,000	-
40-49...	55,000	56,000	45,000	50,000	-	62,000	61,000	53,000	65,000	-
50 or older...	56,000	55,000	45,000	-	-	65,000	65,000	55,000	58,000	-
Life and related scientists										
20-29...	25,700	22,000	-	-	-	21,000	30,000	-	-	-
30-39...	35,000	35,000	36,000	34,500	-	37,500	31,000	39,700	42,000	38,000
40-49...	48,900	42,300	47,000	44,000	-	52,000	57,000	48,000	56,000	-
50 or older...	45,000	43,000	-	-	-	60,000	70,000	60,000	58,500	-
Physical and related scientists										
20-29...	27,000	32,000	-	-	-	28,000	32,000	32,000	32,000	-
30-39...	42,000	45,000	41,000	41,300	-	46,000	47,000	41,000	35,000	-
40-49...	52,000	45,000	-	-	-	60,000	55,000	50,000	56,000	-
50 or older...	51,000	46,000	-	-	-	70,000	70,000	52,400	72,400	-
Social and related scientists										
20-29...	25,000	-	-	22,500	-	23,000	-	-	-	-
30-39...	35,000	44,000	35,000	40,000	-	41,500	48,000	42,000	48,300	-
40-49...	48,000	38,800	38,500	43,000	-	55,000	60,000	36,000	40,000	-
50 or older...	46,500	50,000	45,000	54,000	-	60,000	65,000	50,000	56,000	-
Engineers										
20-29...	41,000	43,000	40,900	40,000	-	41,000	45,000	42,000	40,000	-
30-39...	53,000	56,700	53,000	54,000	-	57,000	54,000	52,000	53,000	56,000
40-49...	58,000	55,000	-	-	-	65,000	64,000	58,000	60,000	55,000
50 or older...	55,000	58,000	-	-	-	70,000	67,000	65,000	66,600	-

KEY: - = Fewer than 20 individuals reporting salary.

NOTE: The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Median salary rounded to nearest hundred dollars.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).

Appendix table 5-27. Median annual salary of full-time employed scientists and engineers, by highest degree, occupation, disability status, and age: 1997

Occupation and age	Bachelor's		Master's		Doctorate	
	Persons without disabilities	Persons with disabilities	Persons without disabilities	Persons with disabilities	Persons without disabilities	Persons with disabilities
	In dollars					
Scientists and engineers total						
20-29...	38,000	34,200	41,000	44,000	40,000	-
30-39...	52,000	50,000	56,000	50,000	50,000	54,000
40-49...	59,000	58,000	62,000	57,000	62,000	62,000
50 or older...	62,000	58,600	65,000	62,000	71,000	70,000
Computer/mathematical scientists						
20-29...	42,000	-	50,000	-	46,000	-
30-39...	54,000	50,500	60,000	58,000	62,000	55,000
40-49...	57,800	60,000	64,500	61,000	66,000	60,000
50 or older...	59,800	56,000	66,000	62,000	68,000	65,000
Life and related scientists						
20-29...	23,000	-	29,000	-	25,000	-
30-39...	35,000	-	35,000	-	38,000	37,500
40-49...	43,000	-	48,000	-	60,000	57,000
50 or older...	47,000	-	49,300	-	70,000	68,400
Physical and related scientists						
20-29...	28,000	-	28,000	-	43,000	-
30-39...	41,000	-	45,000	-	50,000	51,000
40-49...	52,000	-	56,000	-	65,400	70,000
50 or older...	56,500	-	60,000	55,000	77,000	73,500
Social and related scientists						
20-29...	22,500	-	29,000	-	31,000	-
30-39...	30,000	-	37,000	-	42,000	40,000
40-49...	50,000	-	45,000	46,000	55,000	55,000
50 or older...	-	-	47,000	50,000	61,500	61,000
Engineers						
20-29...	40,000	42,800	45,000	-	59,000	-
30-39...	55,000	52,000	60,000	49,700	65,000	64,000
40-49...	62,000	60,000	68,000	64,000	73,000	80,000
50 or older...	65,000	60,000	73,000	72,000	82,000	79,000

KEY: - = Fewer than 20 individuals reporting salary

NOTE: The term "scientists and engineers" includes all persons who have ever received a bachelor's degree or higher in a science or engineering field, plus persons holding a non-science and -engineering bachelor's or higher degree who were employed in a science or engineering occupation. Median salary rounded to nearest hundred dollars.

SOURCE: National Science Foundation/Division of Science Resources Studies, 1997 SESTAT (Scientists and Engineers Statistical Data System).